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| APPLICATION NO. | | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------------|---------|-------------|----------------------|-------------------------|------------------|
| 10/031,344 | | 05/10/2002 | Yoshiki Wakizaka | 037267-0142 | 6436 |
| 22428 | 7590 | 11/14/2006 | | EXAMINER | |
| | ND LAR | DNER LLP | MILLS, DO | MILLS, DONALD L | |
| SUITE 500 3000 K STREET NW | | | | ART UNIT | PAPER NUMBER |
| WASHINGT | ron, do | 20007 | 2616 | | |
| | | | | DATE MAILED: 11/14/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| | Application No. | Applicant(s) WAKIZAKA, YOSHIKI | | | | |
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| | 10/031,344 | | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Donald L. Mills | 2616 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the | correspondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the application to become ABANDOI | ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133). | | | | |
| Status | | • | | | | |
| 1) Responsive to communication(s) filed on 11 A | pril 2006. | | | | | |
| | action is non-final. | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in accordance with the practice under E | · | | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>2,4-6,8 and 10-12</u> is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>2,4-6,8 and 10-12</u> is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/o | r election requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examine | r. | | | | | |
| 10) The drawing(s) filed on is/are: a) acce | epted or b) objected to by the | e Examiner. | | | | |
| Applicant may not request that any objection to the | drawing(s) be held in abeyance. S | See 37 CFR 1.85(a). | | | | |
| Replacement drawing sheet(s) including the correct | ion is required if the drawing(s) is | objected to. See 37 CFR 1.121(d). | | | | |
| 11)☐ The oath or declaration is objected to by the Ex | caminer. Note the attached Office | ce Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of: | priority under 35 U.S.C. § 119 | (a)-(d) or (f). | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | |
| application from the International Bureau | , , , , | | | | | |
| * See the attached detailed Office action for a list | of the certified copies not recei | ved. | | | | |
| Attachment(s) | | | | | | |
| 1) X Notice of References Cited (PTO-892) | 4) Interview Summa | ary (PTO-413) | | | | |
| 2) Dotice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail | Date | | | | |
| Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 5) Notice of Informa 6) Other: | ii raterit Application | | | | |

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2, 4-6, 8, and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Benveniste (US 5,513,379), hereinafter referred to as Benveniste, in view of Gitlin et al. (US 5,442,525), hereinafter referred to as Gitlin.

Referring to claim 2, Benveniste discloses a cellular system (Referring to Figure 3, and respective portions of the spec.) including:

At least two base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.),

A mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) making communication with said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) in CDMA (CDMA, col. 1 lines 55-67); and

An host station (Referring to Figure 3, ref. sign 305 and respective portions of the spec.) controlling (control, col. 6 lines 12-25) communication made between said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) and said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.),

Characterized in that when one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) becomes saturated (interference, col. 6 lines 40-50); said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) makes communication in CDMA (CDMA, col. 1 lines 55-67) through a channel (channel, col. 6 lines 30-50) of other base station(s), and

Said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) when channels of a base station (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) with which said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) makes communication are saturated (interference, col. 6 lines 40-50), stops (blocking, col. 6 lines 44-50) a part of said communication, and makes the thus stopped part of said communication with other base station(s) (Referring to Figure 3, ref. sign 300 and respective portions of the spec.).

Benveniste does not disclose a multi-code CDMA system.

Gitlin teaches a multi-code division multiple access system, which allows a user at a radio transmitter unit to dynamically change its source bit rate (See column 3, lines 31-41.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the multi-code CDMA system of Gitlin in the system of Benveniste. One of ordinary skill in the art at the time of the invention would have been motivated to do so in order to comply with the well-known standard of multi-code CDMA as taught by Benveniste (See column 1, lines 55-67.)

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Referring to claim 4, Benveniste discloses a cellular system (Fig. 3 and respective portions of the spec.) including at least two base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.);

A mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.)

making communication with said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec. in CDMA (CDMA, col. 1 lines 55-67); and

An host station (Referring to Figure 3, ref. sign 305 and respective portions of the spec.) controlling communication made between said base stations and said mobile station (Referring to Figure 3, ref. sign 301 and respective characterized in that one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.), an receipt of a request of starting communication in n codes (n is an integer equal to or greater than 2) from said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.), checks whether channels are short, and transmits the result of checking to said host station (Referring to Figure 3, ref. sign 305 and respective portions of the spec.),

Said host station (Referring to Figure 3, ref. sign 305 and respective portions of the spec.) receives said result from said one of said base stations, and,

If channels for n codes can be secured (reserved, col. 4 lines 1-54), instructs said one of said base station (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) to start making communication, whereas if channels for m codes (m is an integer smaller than n (m<n)) can be secured (reserved, col. 4 lines 1-54), instructs said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) to start making

communication in m codes and further instructs other base station(s) (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) to start making communication in (n-m) codes, and

Said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) makes communication with said one of said base stations in m codes, and further makes communication with said other base station(s) (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) in (n-m) codes.

Benveniste does not disclose a multi-code CDMA system.

Gitlin teaches a multi-code division multiple access system, which allows a user at a radio transmitter unit to dynamically change its source bit rate (See column 3, lines 31-41.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the multi-code CDMA system of Gitlin in the system of Benveniste. One of ordinary skill in the art at the time of the invention would have been motivated to do so in order to comply with the well-known standard of multi-code CDMA as taught by Benveniste (See column 1, lines 55-67.)

Referring to claims 5 and 11, Benveniste discloses the method as set forth in claim 10, further comprising the steps of:

Said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) stopping (blocking, col. 6 lines 44-50) communications made with a mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) only in part of codes, when said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) receives a request of starting communication from another mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) and judges that

channels (channel, col. 6 lines 30-50) is short for satisfying said request, and transmitting a request to said host station (Referring to Figure 3, ref. sign 305 and respective portions of the spec.) to make communication with other base station(s) (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) in codes equal to the stopped (blocking, col. 6 lines 44-50) codes:

Said host station (Referring to Figure 3, ref. sign 305 and respective portions of the spec.), on receipt of said request to make communication with other base station(s) (Referring to Figure 3, ref. sign 300 and respective portions of the spec.), instructing a base station (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) other than said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) to start making communication with said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) in codes equal to said stopped (blocking, col. 6 lines 44-50) codes; and

Said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) stopping communication made with said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) in said part of codes, and starting making communication with said base station (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) other than one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) in codes equal to said stopped (blocking, col. 6 lines 44-50) codes.

Benveniste does not disclose a multi-code CDMA system.

Gitlin teaches a multi-code division multiple access system, which allows a user at a radio transmitter unit to dynamically change its source bit rate (See column 3, lines 31-41.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the multi-code CDMA system of Gitlin in the system of Benveniste. One of ordinary skill in the art at the time of the invention would have been motivated to do so in order to comply with the well-known standard of multi-code CDMA as taught by Benveniste (See column 1, lines 55-67.)

Referring to claim 6, the primary reference further teaches the cellular system as set forth in claim 4 or 5, wherein said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) and said other base station(s) (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) have an adaptive array antenna (Fig. 2 ref. signs 201, 202, 203, 204 and 205 and respective portions of the spec.).

Referring to claim 8, Benveniste discloses a method of making communication in CDMA (CDMA, col. 1 lines 55-67) where a mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) makes communication with base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) in CDMA (CDMA, col. 1 lines 55-67) and an host station (Referring to Figure 3, ref. sign 305 and respective portions of the spec.) controls (control, col. 6 lines 12-25) communication made between said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) and said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.),

Characterized by the step of, said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.), when one of said base stations (Referring to Figure 3, ref. sign

300 and respective portions of the spec.) becomes saturated (interference, col. 6 lines 40-50), making communication in CDMA (CDMA, col. 1 lines 55-67) through a channel (channel, col. 6 lines 30-50) of other base station(s),

Wherein said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.), when channels (channel, col. 6 lines 30-50) of a base station (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) with which said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) makes communication are saturated (interference, col. 6 lines 40-50), stops (blocking, col. 6 lines 44-50) a part of said communication, and makes the thus stopped (blocking, col. 6 lines 44-50) part of said communication with other base station(s).

Benveniste does not disclose a multi-code CDMA system.

Gitlin teaches a multi-code division multiple access system, which allows a user at a radio transmitter unit to dynamically change its source bit rate (See column 3, lines 31-41.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the multi-code CDMA system of Gitlin in the system of Benveniste. One of ordinary skill in the art at the time of the invention would have been motivated to do so in order to comply with the well-known standard of multi-code CDMA as taught by Benveniste (See column 1, lines 55-67.)

Referring to claim 10, Benveniste discloses a method of making communication in CDMA (CDMA. col. 1 lines 55-67) where a mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) makes communication with base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) in CDMA (CDMA, col. 1 lines 55-

67) and an host station (Referring to Figure 3, ref. sign 305 and respective portions of the spec.) controls (control, col. 6 lines 12-25) communication made between said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) and said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.),

Characterized by the steps of: one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.), on receipt of a request of starting communication in n codes (n is an integer equal to or greater than 2) from said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.), checking whether channels are short, and transmitting the result of checking to said host station (Referring to Figure 3, ref. sign 305 and respective portions of the spec.),

Said host station (Referring to Figure 3, ref. sign 305 and respective portions of the spec.) receiving said result from said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.), and,

If channels (channel, col. 6 lines 30-50) for n codes can be secured (reserved, col. 4 lines 1-54), instructing said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) to start making communication, whereas if channels (channel, col. 6 lines 30-50) for m codes (m is an integer smaller than n (m<n)) can be secured (reserved, col. 4 lines 1-54), instructing said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) to start making communication in m codes and further instructing other base station(s) (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) to start making communication in (n-m) codes, and

Said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) making communication with said one of said base stations (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) in m codes, and further making communication with said other base station(s) (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) in (n-m) codes.

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Referring to claim 12 as explained in the rejection statement of claim 10, Benveniste and Gitlin teach all of the claim limitations of claim 10 (parent claim.) Benveniste further discloses the method as set forth in claim 10 or 11, wherein said one of said base station(s) (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) and said other base station(s) (Referring to Figure 3, ref. sign 300 and respective portions of the spec.) make communication with said mobile station (Referring to Figure 3, ref. sign 301 and respective portions of the spec.) in CDMA (CDMA, col. 1 lines 55-67) through an adaptive array antenna (Fig. 2 ref. signs 201, 202, 203, 204 and 205 and respective portions of the spec.).

Benveniste does not disclose a multi-code CDMA system.

Gitlin teaches a multi-code division multiple access system, which allows a user at a radio transmitter unit to dynamically change its source bit rate (See column 3, lines 31-41.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement the multi-code CDMA system of Gitlin in the system of Benveniste. One of ordinary skill in the art at the time of the invention would have been motivated to do so in order to comply with the well-known standard of multi-code CDMA as taught by Benveniste (See column 1, lines 55-67.)

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Response to Arguments

3. Applicant's arguments with respect to claims 2, 4-6, 8, and 10-12 have been considered

but are moot in view of the new ground(s) of rejection.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Donald L. Mills whose telephone number is 571-272-3094. The

examiner can normally be reached on 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Donald L Mills

November 11, 2006

SUPERVISORY PATENT EXAMINER

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